**BS IN COMPUTER SCIENCE CHECKLIST**

**Mount Vernon Nazarene University, 2024-2025**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID \_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

**BA/BS DEGREE REQUIREMENTS:**

Must complete ALL of the following:

\_\_ 1. Minimum of 120 semester hours.

\_\_ 2. General Education Core.

\_\_ 3. Algebra (MAT0093) OR two (2) years of high school algebra and/or geometry

\_\_ 4. 30 semester hours of courses numbered 3000 or above. (Examples marked with \* below)

\_\_ 5. Complete course work for an approved major(s) and minor(s).

\_\_ 6. Cumulative GPA of at least 2.00 in all courses at MVNU.

\_\_ No grade below "C-" in required major courses.

\_\_ No grade below "C-" in the minimum number of major electives.

\_\_ 7. Complete Junior-Senior assessment program.

**GENERAL EDUCATION CORE REQUIREMENTS**

**Competencies 10-15 Common Core 18-19**

\_\_ ENG1083/4 College Writing 3-4 (w/ lab) \_\_COR1012/3 D.o.C.M. 2-3 (w/lab)

\_\_ Foreign Lang or Communication 3-4 \_\_ BIB1013 Narrative of Scripture 3

\_\_ Quantitative Reasoning 3-4 \_\_ HIS1013 Western Tradition 3

\_\_ Health & Wellness 1-3 \_\_ COR2003 Exploring Vocation I 3

\_\_ COR3001 Exploring Vocation II 1\*

*Includes service-focused trip via Campus Ministries*

**Explorations** **11-17**

\_\_ Crossing Cultures 0-4 \_\_ THE3003 Christian Beliefs\* 3\*

\_\_ Natural Science with lab 4 \_\_ COR5013 Contemporary Concerns 3\*

\_\_ Social Science 3

\_\_ The Arts 1-3

\_\_ Literature 3

or Honors Core Conversations

# BS COMPUTER SCIENCE REQUIREMENTS

**Major Courses 49**

\_\_ CSC1024 Computer Science I 4 \_\_ CSC3083 Technology & Society 3\*

\_\_ CSC2024 Computer Science II 4 \_\_ CSC4081 Computer App. Practicum I 1\*

\_\_ CSC1053 Elementary Discrete Math 3 \_\_ CSC4082 Computer App. Practicum II 2\*

\_\_ CSC2033 Data Structures & Algorithms 3 \_\_ CSC3044 Operating Systems 4\*

CSC3004 Software Development 4\* CSC4003 Computer & Info. Security 3\*

\_\_ CSC3024 Software & Sys Engineering 4\* \_\_ CSC4023 Programming Languages 3\*

\_\_ CSC3054 Computer Org & Architecture 4\*

\_\_ CSC3063 Computer Networking Survey 3\*

\_\_ CSC3074 Database Management Sys. 4\*

**Math Minor Courses 17**

\_\_ MAT1034 Calculus I 4 \_\_ MAT2063 Intro to Statistics 3

\_\_ MAT2034 Calculus II 4 \_\_ MAT3023 Advanced Discrete Math 3\*

\_\_ MAT3013 Linear Algebra 3\*

**Electives (as needed)**

\_\_ CSC3101 Advanced Problem Solving 1 \_\_ CSC5029 CS Internship 1-6\*

\_\_ CSC3003 Web Application Dev. 3 \_\_ CSC5019 Independent Study 1-4\*

\_\_ CSC4089 Special Topics in CS 1-3 \_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_